

## CLAIMS

1. Printing unit for printing with flexographic inks and lacquer in an offset printing machine that includes a printing plate cylinder, a rubber sheet cylinder, a back-pressure cylinder and an inking unit which includes a screen roller in engagement with a doctor blade system and which is arranged for continuous rotation, either by engaging a motor in a situation where the printing machine is not operating or by engaging the transmission of the printing machine when the printing machine is operating, the screen roller being arranged for swinging in and out of engagement with rubber sheet cylinder which has an axially oriented channel limited by the front edge and the rear edge of the rubber sheet, **characterised in that** the inking unit is adapted for being mounted in the support holder of the printing machine for a washing facility for the rubber sheet on the rubber sheet cylinder.  
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15 2. Printing unit according to claim 1 and for an offset printing machine adapted for printing sheets, **characterised in that** the screen roller is arranged for swinging against the rubber sheet cylinder opposite the duct in order to be in contact with the rubber sheet from its front edge.
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25 3. Printing unit according to claim 2, **characterised in that** the screen roller is arranged for swinging away from the rubber sheet cylinder opposite the channel in order to be in contact with the rubber sheet to its rear edge.
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35 4. Printing unit according to claim 1, 2 or 3, **characterised in that** interacting bearing means on the inking unit and the printing machine are provided for adjusting the contact pressure of the inking unit against the rubber sheet.
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45 5. Printing machine with a printing unit according to any preceding claim, **characterised in that** at each end of the inking unit there are projecting guide means which are arranged for interacting with at least one guide groove formed in the support holder of the printing machine at each end of the rollers and which interacts with projecting guide means on the washing facility.

6. Tool for use in mounting and dismounting the washing facility and the inking unit in a printing machine according to claim 5, **characterised in that** it includes two side plates that each are provided with positioning means interacting with corresponding positioning means in the support holder of the printing machine and auxiliary guide grooves that are aligned with the guide grooves in the support holder of the printing machine when the positioning means engage, the guide grooves and auxiliary guide grooves being adapted for receiving the washing facility/inking unit at a position situated under carrier handles formed at an upper side of the tool, preferably on the side plates, and which is used for lifting when mounting and dismounting the washing facility and the inking unit.

7. Method of operation for printing with flexographic inks and lacquer in an offset printing machine which includes a printing plate cylinder, a rubber sheet cylinder, a back-pressure cylinder and an inking unit which includes a screen roller engaging a doctor blade system and which is continuously rotated, either by engaging a motor in a situation where the printing machine is not operating or by engaging the transmission of the printing machine when the printing machine is operating, the screen roller being arranged for swinging in and out of engagement with rubber sheet cylinder which has an axially oriented channel limited by the front edge and the rear edge of the rubber sheet, **characterised in that** inking unit is displaced in the support holder of the printing machine for a washing facility for the rubber sheet on the rubber sheet cylinder for mounting and dismounting, respectively, by substituting with the washing facility.

8. Method according to claim 7 and for offset printing on sheets, **characterised in that** the screen roller is swung in and out of engagement with the rubber sheet cylinder, as it is brought in contact with the rubber sheet from its front edge simultaneously with a first sheet in a series of prints is inserted in the printing unit.

9. Method according to claim 7 or 8, **characterised in that** the screen roller is swung against the rubber sheet cylinder opposite the channel in order to be in contact with the rubber sheet from its front edge.

10. Method according to claim 8, 9 or 10, **characterised in that** the screen roller is

swung away from the rubber sheet cylinder opposite the channel at the penultimate sheet in a printing series in order to be in contact with the rubber sheet at its rear edge.